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Subject:

Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam
Area 2 – Plainwell Dam to Otsego City Dam (Otsego City Impoundment)
Area 3 – Otsego City Dam to Otsego Dam (Former Otsego Impoundment)
May 2012

SEDIMENTS

Dear Jim:

Date:
June 12, 2012

Attached is the 63rd monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Supplemental Remedial Investigation/ Feasibility Study (SRI/FS). This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). If you have any questions, please do not hesitate to contact me.

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Sincerely,

ARCADIS



Michael J. Erickson, P.E.
Vice President

Our ref:
B0064539.0003.00014
#2

Attachment

Copies:

Michael Berkoff, USEPA
Sam Borries, USEPA
Paul Bucholtz, MDEQ
Sharon Hanshue, MDNR
Jeff Keiser, CH2M HILL
Todd Goeks, NOAA
Jessica Winter, NOAA
Richard Gay, Weyerhaeuser Company
Martin Lebo, Ph.D., Weyerhaeuser Company
Kathy Huibregtse, ENVIRON
Garry Griffith, P.E., Georgia-Pacific LLC

**MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE SRI/FS
AREA 1 (MORROW DAM TO PLAINWELL DAM)
AREA 2 (PLAINWELL DAM TO OTSEGO CITY DAM – OTSEGO CITY IMPOUNDMENT)
AREA 3 (OTSEGO CITY DAM TO OTSEGO DAM – OTSEGO IMPOUNDMENT)**

REPORT #63, MAY 2012

**PREPARED BY ARCADIS
JUNE 12, 2012**

ON BEHALF OF GEORGIA-PACIFIC LLC

SUBMITTED TO

**JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, and 3**

REPORT #63, MAY 2012

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the AOC and SOW

- On May 2, the U.S. Fish and Wildlife Service (USFWS) forwarded to ARCADIS an updated species spreadsheet and the Walters (2010) article.
- On May 2, the Michigan Department of Environmental Quality (MDEQ) provided to USEPA comments on the Plainwell Bank Conditions Monitoring Report. The USEPA forwarded these comments to ARCADIS on May 11.
- On May 7, ARCADIS forwarded to John Kern, Ph.D. of KERN Statistical Services, Inc. lists of species that have been genetically sequenced to date by Dr. Sean Kennedy of the University of Ottawa and a list of species identified at the Site.
- On May 7, ARCADIS forwarded to USEPA and MDEQ the locations for additional proposed soil and sediment sample locations in Area 2.
- On May 8, ARCADIS forwarded to USEPA and MDEQ revised transect survey data for select points in Area 3.
- On May 10, USEPA forwarded to ARCADIS approval of the Area 3 SRI/FS Work Plan.
- On May 15, ARCADIS forwarded to USEPA and MDEQ the conceptual layout for soil sampling and focused reconnaissance in Area 3.
- On May 15, USEPA, MDEQ, Georgia-Pacific LLC (Georgia-Pacific), and ARCADIS participated in a conference call to discuss the Area 2 supplemental sediment and soil core sampling.
- On May 16, USEPA, Georgia-Pacific, and ARCADIS met in Chicago to discuss the project.
- On May 18, ARCADIS submitted to USEPA the proposed Area 2 supplemental soil and sediment Field Sampling Plan (FSP).
- On May 29, USEPA forwarded to ARCADIS approval of the proposed Area 2 supplemental soil and sediment FSP.
- Georgia-Pacific awaits the following:
 - USEPA's approval of the Area 1 SRI Report
 - USEPA's approval of Former Plainwell Impoundment and Plainwell No. 2 Dam Area 2011 Bank Conditions Monitoring Report
 - USEPA's comments on the Area 1 Alternatives Screening Technical Memorandum (Area 1 ASTM)

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
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REPORT #63, MAY 2012

Data Collected and Field Activities Conducted during the Period

- On May 3, ARCADIS completed the annual inspection of vegetation and banks as a part of the 2012 Plainwell Bank Conditions Monitoring Report. The results of this inspection will be included in the Draft 2012 Plainwell Bank Conditions Monitoring Report.
- On May 3, Mateco Drilling Company completed monitoring well removal in the former Plainwell Impoundment Time Critical Removal Action (TCRA) Area.
- On May 11, Cardno JFNew completed the replanting of trees and shrubs in the Plainwell No. 2 Dam TCRA Area.

Laboratory Data Received during the Period

- In May, ARCADIS received analytical results from TestAmerica Laboratories Inc. (TestAmerica) for archived Area 2 soil and sediment samples submitted for non-PCB analysis in April. Table 1 lists the sample analytical results received from TestAmerica in May by sample delivery group (SDG).
- On May 11, CDM Smith forwarded to ARCADIS the latest MDEQ database update, which includes 2011 quarterly inlet/outlet surface water event data.
- ARCADIS awaits the long-term monitoring fish tissue PCB concentration data for sampling conducted in fall 2011 (scheduled to be received in summer 2012) from MDEQ.

Problems

- None.

Actions Taken to Correct Problems

- No problems.

Developments Anticipated during the Next Two Reporting Periods

- During the week of June 4, ARCADIS is scheduled to perform additional supplemental soil and sediment sampling in the Otsego City Impoundment (Area 2) with oversight by USEPA and MDEQ.
- In June, ARCADIS anticipates submitting an Area 3 Proposed Reconnaissance Plan and Preliminary Sampling Design to USEPA. Upon approval of this plan from USEPA, in June, ARCADIS anticipates performing field reconnaissance in the former Otsego Impoundment, with oversight from USEPA and MDEQ.
- In June, ARCADIS anticipates receiving USEPA's comments on the Area 1 ASTM.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, and 3**

REPORT #63, MAY 2012

- In June, ARCADIS anticipates holding a preliminary conference call to discuss the Area 2 SRI Report and the Area 1 Feasibility Study Report.
- In July, ARCADIS anticipates holding a preliminary Area 1 Feasibility Study planning meeting with USEPA.
- In July, ARCADIS anticipates holding a meeting with USEPA to plan the Area 2 SRI Report.
- In July, ARCADIS anticipates submitting the Draft 2012 Plainwell Bank Conditions Monitoring Report.
- The validated analytical data received in May will be included in the July monthly report. These data include the non-PCB analytical results for the archived Area 2 soil and sediment samples.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #63, May 2012

Table 1 - Area 2/Otsego City Impoundment Phase 2 Investigation - SDG Received in May 2012

SDG	Location	Sample ID	Depth Interval (inches)	Date Collected	Media	Analysis	Date Received
10334	OCTBS-02	K26755	6 - 12	10/11/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-48	K26760	6 - 12	10/12/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-58	K26794	57 - 60	10/12/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-63	K26805	12 - 24	10/12/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-73 ¹	K26813	19 - 27	10/12/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-78	K26827	31 - 35	10/13/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-83	K26838	12 - 24	10/13/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-102	K26856	36 - 40	10/14/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-08	K27005	0 - 4	10/19/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-23	K27024	24 - 36	10/19/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-33	K27030	29 - 37	10/19/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCTBS-07	K27161	53 - 66	10/21/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-38	K27188	0 - 6	10/25/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-43	K27197	12 - 20	10/25/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-120	K27206	7 - 14	10/25/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCTBS-27	K27222	14 - 23	10/25/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCTBN-21	K27257	35 - 42	10/26/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCTBS-22	K27271	31 - 45	10/26/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCTBS-26	K27377	63 - 73	10/26/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCIFP-134	K27403	35 - 42	10/27/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCTBN-16	K27419	24 - 32	10/27/2011	Soil	SVOCs/Pesticides/Metals	5/7/2012
	OCISED-18	K57038	0 - 5	11/1/2011	Sediment	SVOCs/Pesticides/Metals	5/7/2012
	OCISED-03	K57119	46 - 55	11/2/2011	Sediment	SVOCs/Pesticides/Metals	5/7/2012
	OCISED-23	K57123	12 - 27	11/2/2011	Sediment	SVOCs/Pesticides/Metals	5/7/2012
	OCISED-53 ²	K57196	6 - 12	11/3/2011	Sediment	SVOCs/Pesticides/Metals	5/7/2012
	OCISED-38	K57241	0 - 6	11/3/2011	Sediment	SVOCs/Pesticides/Metals	5/7/2012
	OCISED-48	K57248	6 - 12	11/3/2011	Sediment	SVOCs/Pesticides/Metals	5/7/2012
	OCISED-63	K57292	6 - 13	11/4/2011	Sediment	SVOCs/Pesticides/Metals	5/7/2012
	OCISED-73	K57294	6 - 12	11/4/2011	Sediment	SVOCs/Pesticides/Metals	5/7/2012
	OCISED-68	K57308	21 - 25	11/4/2011	Sediment	SVOCs/Pesticides/Metals	5/7/2012
	OCTBS-02	K26755	6 - 12	10/11/2011	Soil	PCDD/PCDF	5/15/2012
	OCIFP-48	K26760	6 - 12	10/12/2011	Soil	PCDD/PCDF	5/15/2012
	OCIFP-58	K26794	57 - 60	10/12/2011	Soil	PCDD/PCDF	5/15/2012
	OCIFP-63	K26805	12 - 24	10/12/2011	Soil	PCDD/PCDF	5/15/2012
	OCIFP-73 ^{1,3}	K26813	19 - 27	10/12/2011	Soil	PCDD/PCDF	5/15/2012
	OCIFP-78 ⁴	K26827	31 - 35	10/13/2011	Soil	PCDD/PCDF	5/15/2012
	OCIFP-83	K26838	12 - 24	10/13/2011	Soil	PCDD/PCDF	5/15/2012
	OCIFP-102	K26856	36 - 40	10/14/2011	Soil	PCDD/PCDF	5/15/2012
	OCIFP-08	K27005	0 - 4	10/19/2011	Soil	PCDD/PCDF	5/15/2012
	OCIFP-23	K27024	24 - 36	10/19/2011	Soil	PCDD/PCDF	5/15/2012
	OCIFP-33	K27030	29 - 37	10/19/2011	Soil	PCDD/PCDF	5/15/2012
	OCTBS-07	K27161	53 - 66	10/21/2011	Soil	PCDD/PCDF	5/15/2012
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	OCIFP-134	K27403	35 - 42	10/27/2011	Soil	PCDD/PCDF	5/15/2012
	OCTBN-16	K27419	24 - 32	10/27/2011	Soil	PCDD/PCDF	5/15/2012
	OCISED-18	K57038	0 - 5	11/1/2011	Sediment	PCDD/PCDF	5/15/2012
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	OCISED-73	K57294	6 - 12	11/4/2011	Sediment	PCDD/PCDF	5/15/2012
	OCISED-68	K57308	21 - 25	11/4/2011	Sediment	PCDD/PCDF	5/15/2012

See Notes on Page 2.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #63, May 2012

Table 1 - Area 2/Otsego City Impoundment Phase 2 Investigation - SDG Received in May 2012

Notes:

- 1 - Since sample jar for K26814 was broken, K26813 was submitted for analysis. This sample was selected from the same PCB concentration range as K26814.
- 2 - K57196 sample jar for SVOCs/Pesticides/Metals analyses was broken during shipping. But, sample was intact in the broken jar. Therefore, laboratory performed required analyses on this samples.
- 3 - K26813 sample jar for PCDD/PCDF analysis was broken during shipping. But, sample was intact in the broken jar. Therefore, laboratory performed required analyses on this samples.
- 4 - K26827 sample jar for PCDD/PCDF analysis was broken during shipping. But, sample was intact in the broken jar. Therefore, laboratory performed required analyses on this samples.

PCDD/PCDF = Polychlorinated dibenzo-p-dioxin/polychlorinated dibenzofuran

SDG = sample delivery group

SVOCs = Semivolatile Organic Compounds